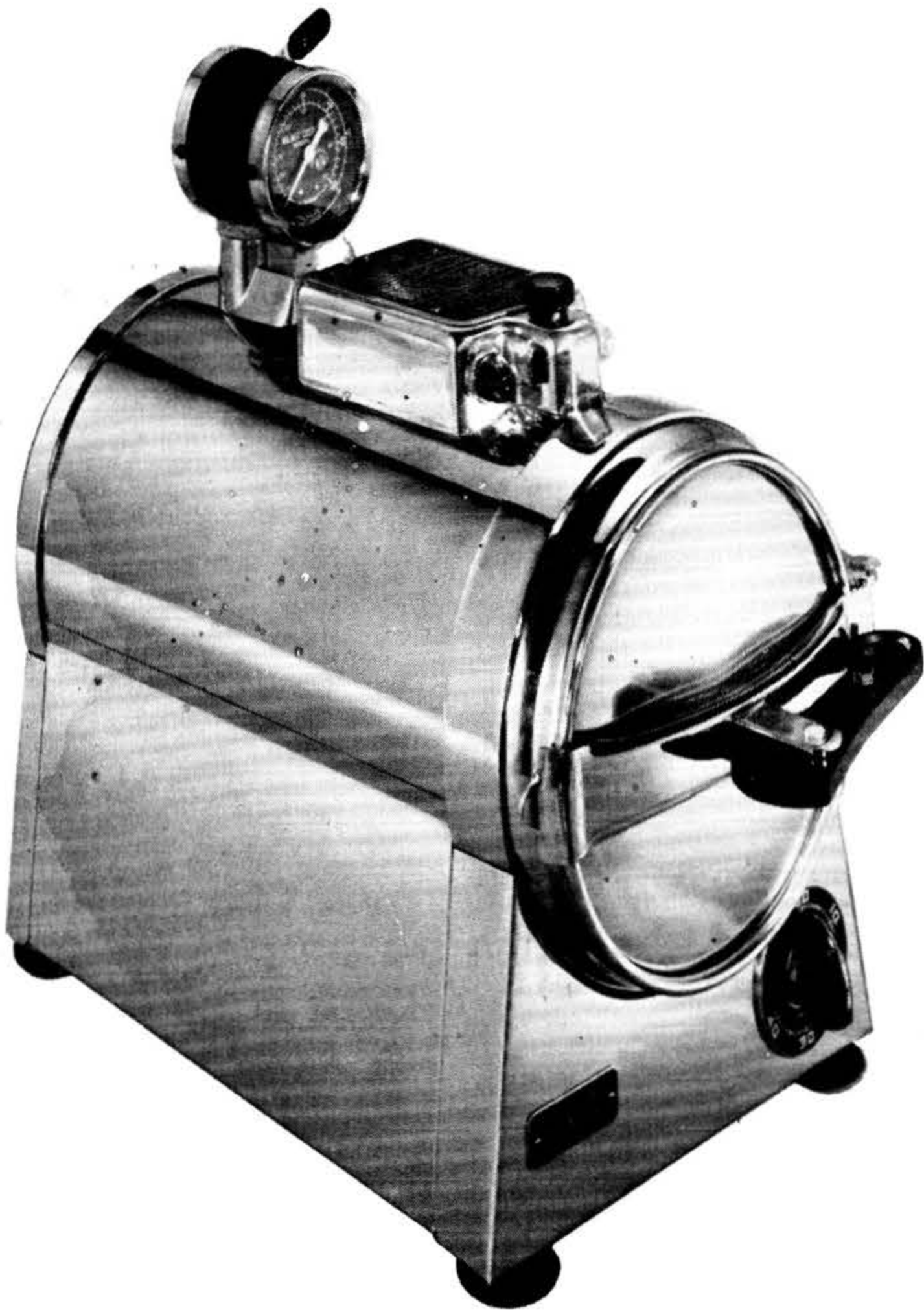


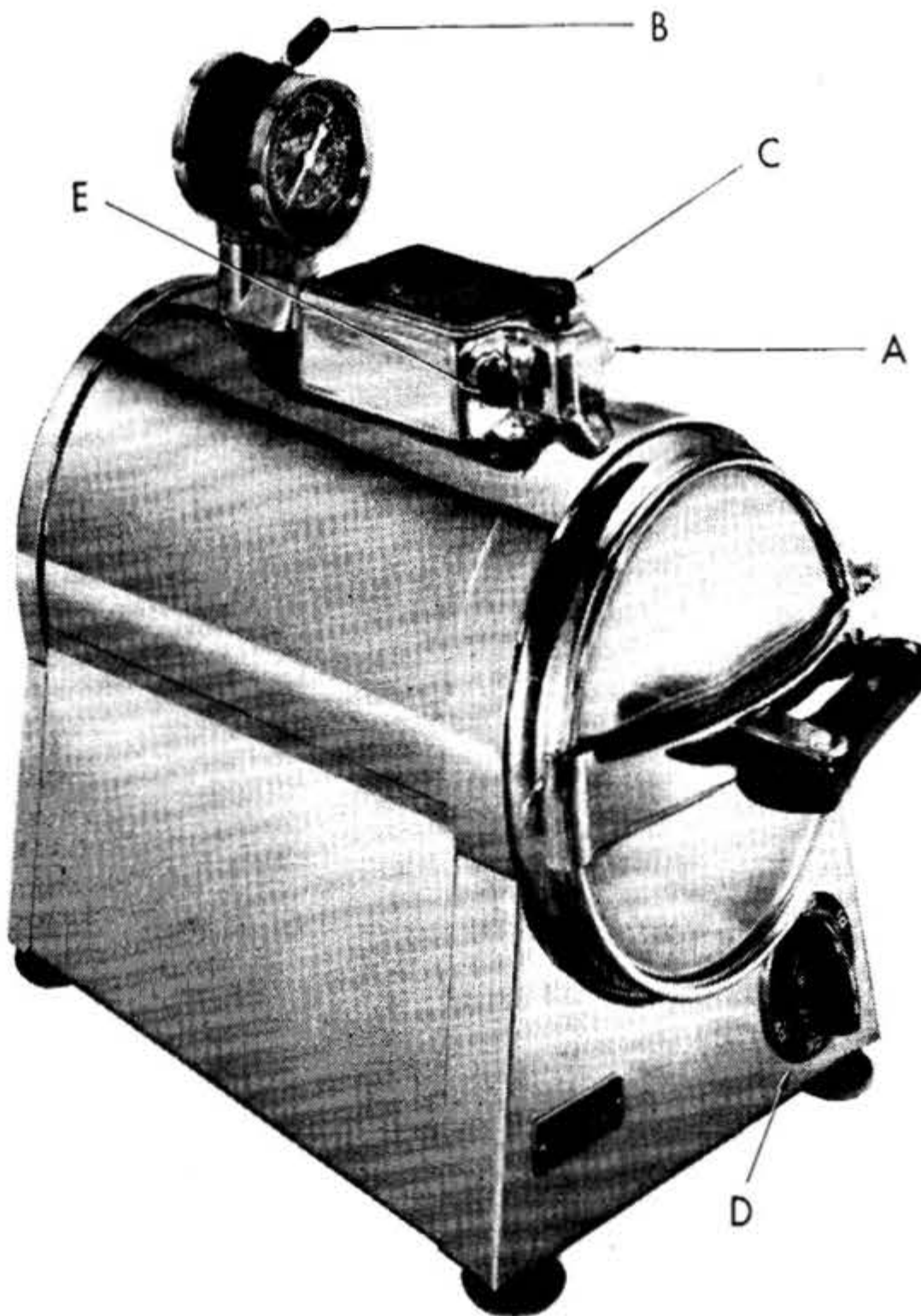
# **How to Use Your CASTLE "777" SPEED-CLAVE**



**WILMOT CASTLE COMPANY**

**Rochester, N. Y.**

# STEP-BY-STEP OPERATING PROCEDURE



**NOTE:** Your Speed-Clave uses alternating current (A.C.) *only*.

- 1.** Open the door by throwing handle to the left, and then pushing door slightly to the right against spring tension. Swing door out and to the right. (Closing is the reverse of this procedure.)
- 2.** Pour water directly into Speed-Clave outer chamber before using. When empty this will take 12 ounces. After each cycle, add sufficient water (a small cupful) to bring the level one quarter of the way up the curved rim inside the door. **DO NOT OVERFILL.** Use *distilled water when available*.
- 3.** Load. See procedure on last page for handling instruments and dressings.
- 4.** Push safety valve handle (B) all the way down closing the valve.
- 5.** For initial operation, turn bakelite knob (C) on top of control box to left all the way. This knob controls the operating temperature in autoclave. (When once adjusted for desired temperature, it is not necessary to turn this knob except to change operating temperature.)
- 6.** Set the timer-switch (D) between 15 and 30 minutes. This starts the heater, and the red light (E) will come on.

Steam will now begin to form in the autoclave. It will fill the inner and outer chambers and will expel all the air. You will notice the mixed air and steam escaping from the vent at the rear of the autoclave. When all the air is out, this vent will close automatically.



Steam pressure and temperature will now begin to show on the gauge, and will build up quickly. Total time from start, (i.e. activating of timer), is 7 to 8 minutes if autoclave is cold, 3 to 4 minutes if it's hot.

**7.** When the needle on the gauge reaches the desired sterilizing temperature, turn the knob (C) *very slowly* to the right (clockwise) until the white light (A) comes on.

*Once you make this adjustment, you won't have to turn the knob again when you use the Speed-Clave unless you want to change the sterilizing temperature. See Page 4 for a table of recommended sterilizing temperatures and time periods.*

**8.** Re-set the timer-switch (D) for the correct sterilizing time period (from table on Page 4).

While the autoclave is sterilizing, the red and white lights will alternate. This shows that the temperature is being regulated automatically.

**9.** When the sterilizing period is completed, current turns off automatically, and no light will show.

**10.** You can let the steam pressure return to zero by waiting about 4 minutes, or you can release it immediately by raising the safety valve handle (B). By raising this handle about  $\frac{1}{4}$ " steam will escape slowly.

**11.** When the needle on the pressure gauge is at zero, crack the door by swinging the handle 90° to the left. Let the vapor escape for 3 to 5 minutes. The longer this period the drier the contents. Then open the door by swinging handle fully to left, pushing door assembly slightly towards hinge and pulling outwards.

*Do not leave door closed tightly when Speed-Clave is not in use. Open, or "crack" door while Speed-Clave is still warm.*

## **LITTLE THINGS THAT MAY BE HELPFUL IN RUNNING YOUR SPEED-CLAVE**

Read operating instructions carefully and make sure operating personnel follow them.

If red light does not light, check electrical outlet, bulb and timer, and see that control knob is turned to left.

If needle on pressure gauge does not "zero," remove glass and adjust recalibration screw so that needle points to zero when sterilizer is cold.

If contents are damp on removal, allow longer wait after door is "cracked" when pressure is released.

Air vent in back will steam for 20 to 60 seconds to insure evacuation of all air. See that handle (B) is down.

If door closes too stiffly, lubricate bearing edge of handle with vaseline. Wetting the bottom suction cups will prevent sliding.

If door should leak at rim, be sure door is centered when closing. Do not fill with water more than quarter way up curved rim.

Do not assume door gasket needs replacement unless it is visibly broken. Replacement by qualified service man only.

A steam "whisper" at safety valve is acceptable.

Never turn timer knob to the left of zero.

TEMPERATURE		PRESSURE		TIME (minutes)	
Cent.	Fahr.	Lb.	Instruments	Cotton	Rubber
**121°	250°	15	13	20	15
123°	253°	17	10	15	*
**126½°	260°	20+	6	8	*

\*\*Recommended Temperatures and Time Periods  
 (These times are less than usual because these small quantities of materials in this autoclave require less time for steam penetration, and heating.)

## HOW TO LOAD THE SPEED-CLAVE

Always cover bottom of trays with linen or paper towel, or light weight muslin. Wrapped packs and instruments should be covered similarly.

**INSTRUMENTS:** For instruments, cover the bottom of each tray with a towel of cotton or tissue. Instruments should be wrapped or covered. It's a good idea to put a drop of oil on moving parts of handpiece (disassembled). Be sure to open all jointed instruments, such as scissors, forceps, etc. Use instruments at once. Do not store them in the wrapping in which they have been sterilized.

**COTTON MATERIALS:** Wrap cotton materials such as sponges, rolls, gauze, cotton, points, etc., in a muslin compress or paper tissue. An individual packet for each patient is recommended. Always cover bottom of tray, and cover packs. See Castle Manual of Sterilization. Don't pack them tightly. Place deep or cylindrical jars on side—not vertical—with cover off or loose.

**DRYNESS:** Cotton goods will be dry, if properly wrapped and covered top and bottom. If condensation appears on instruments, pressing them with their cotton or tissue covering will remove it, and their latent heat will complete the drying. Do not store instruments in a damp covering. Sterile technique is best maintained by carrying instruments in their covering to operating table for use as soon as cool.

Do not alternately autoclave and boil instruments, as that will cause spotting.

**NOTES:** Neon bulbs are Castle No. 3001, available at your dealers or from Wilmot Castle Company. Their life is normally 3000 hours.

*Air Vent* (at rear). If the Air Vent at rear does not close at high altitudes, write for special instructions.

# Castle LIGHTS AND STERILIZERS